

# TECHNOLOGY SOLUTIONS For The 21st Century



# SPAWAR



*Systems Center  
Charleston*

*July 31, 2001*

## *Command Brief*

Commanding Officer  
Executive Director

CAPT Nancy L. Deitch  
Mr. Don Bailey



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# Our Mission

**We enable knowledge superiority to the warfighter through the development, acquisition, and life cycle support of effective, capable and integrated C4ISR, IT, and Space systems.**



*Excellence Through Teamwork*





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# Restructuring: East Coast Naval Electronic Engineering Activities

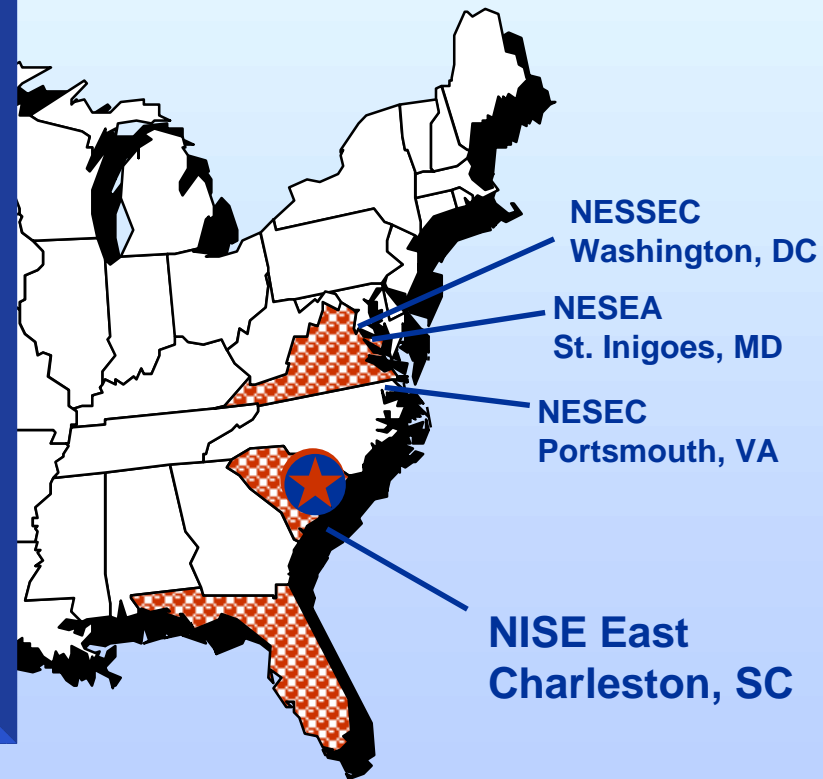
**BRAC 1993: Consolidated the East Coast Naval Electronic Engineering Activities**

- NESSEC Washington, DC
- NESEA St. Inigoes, MD
- NESEC Portsmouth, VA
- NESEC Charleston, SC

**Established as NISE East, Charleston -- Jan 1994**

**NISE East renamed as SPAWAR Systems Center (SSC) Charleston -- Oct 1997**

**NCTC NWCF East Coast Elements transferred to SSC Charleston -- Feb 2000**

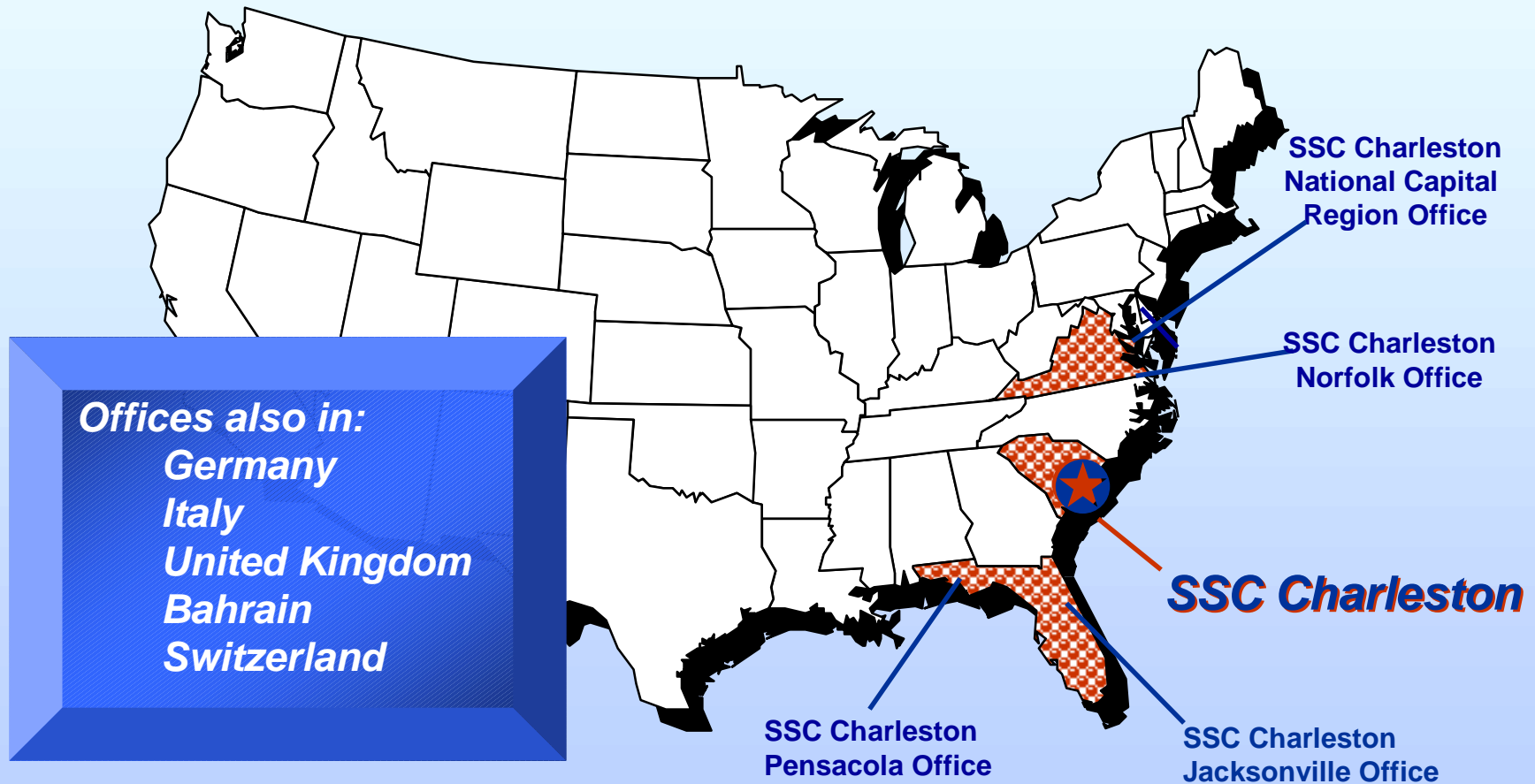


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## Major Locations

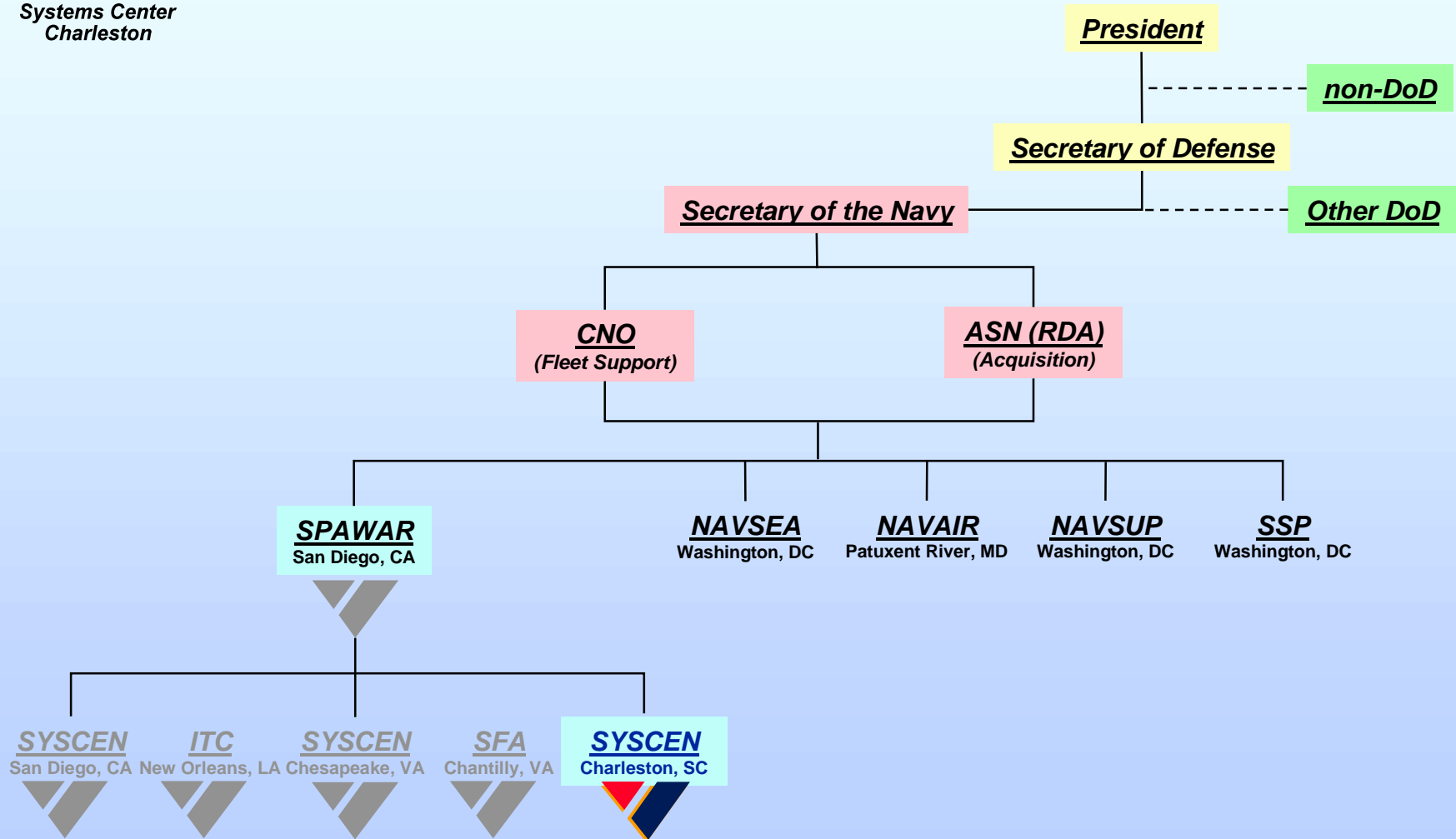


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# Chain of Command



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# Our Expertise

- ☐ Build Ships
- ☐ Build Planes
- ☒ Build “The Network” and its C<sup>4</sup>ISR Systems

- *Air traffic control*
- *Command & Control*
- *Communications*
- *Cryptologic & Intelligence*
- *Image processing*
- *Meteorology*
- *Navigation*
- *Physical & computer security*
- *Sensors*
- *Video teleconferencing*

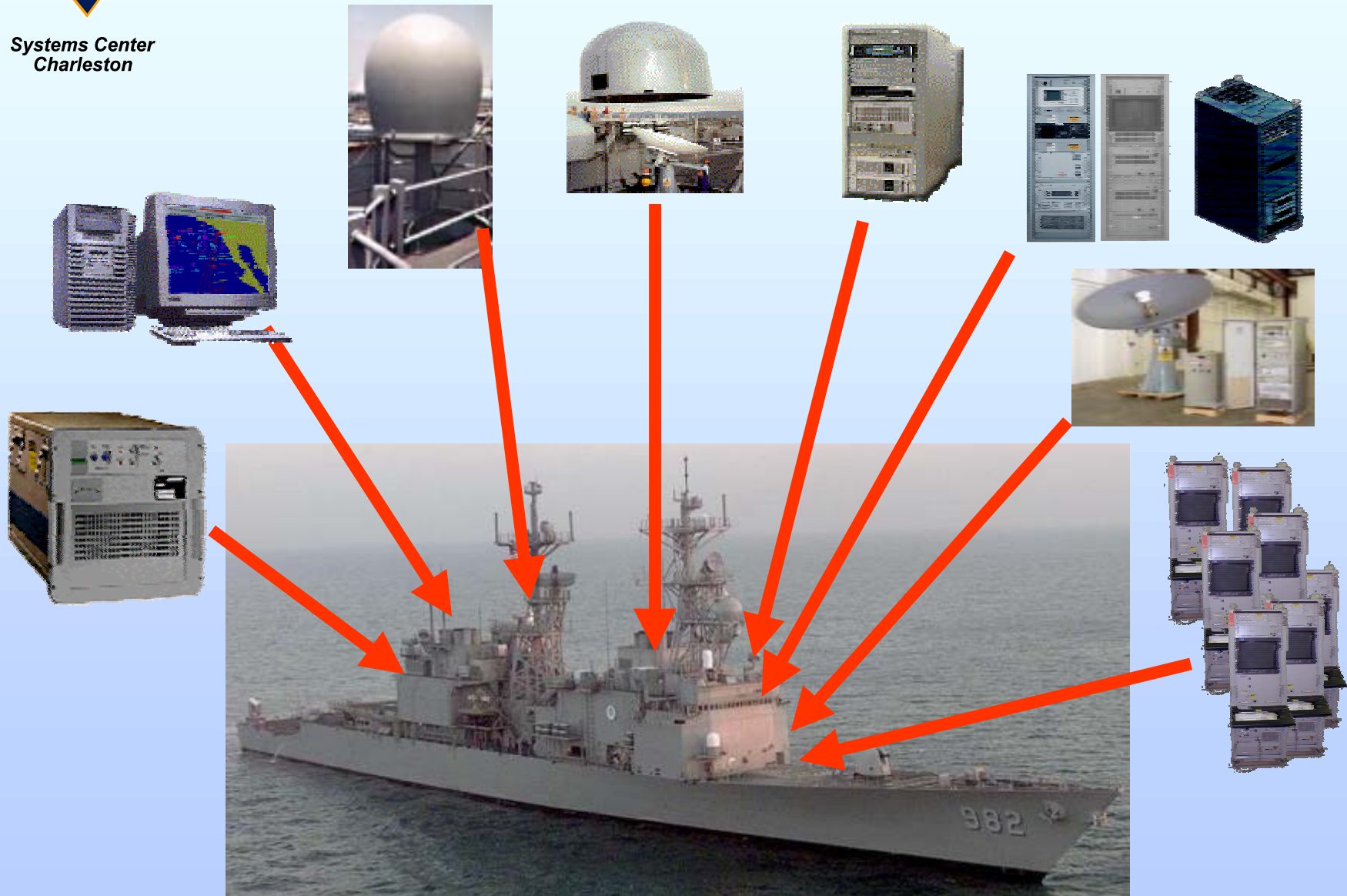


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## Today's Horizontal Integration: From Interfacing the Product Line -



*Excellence Through Teamwork*

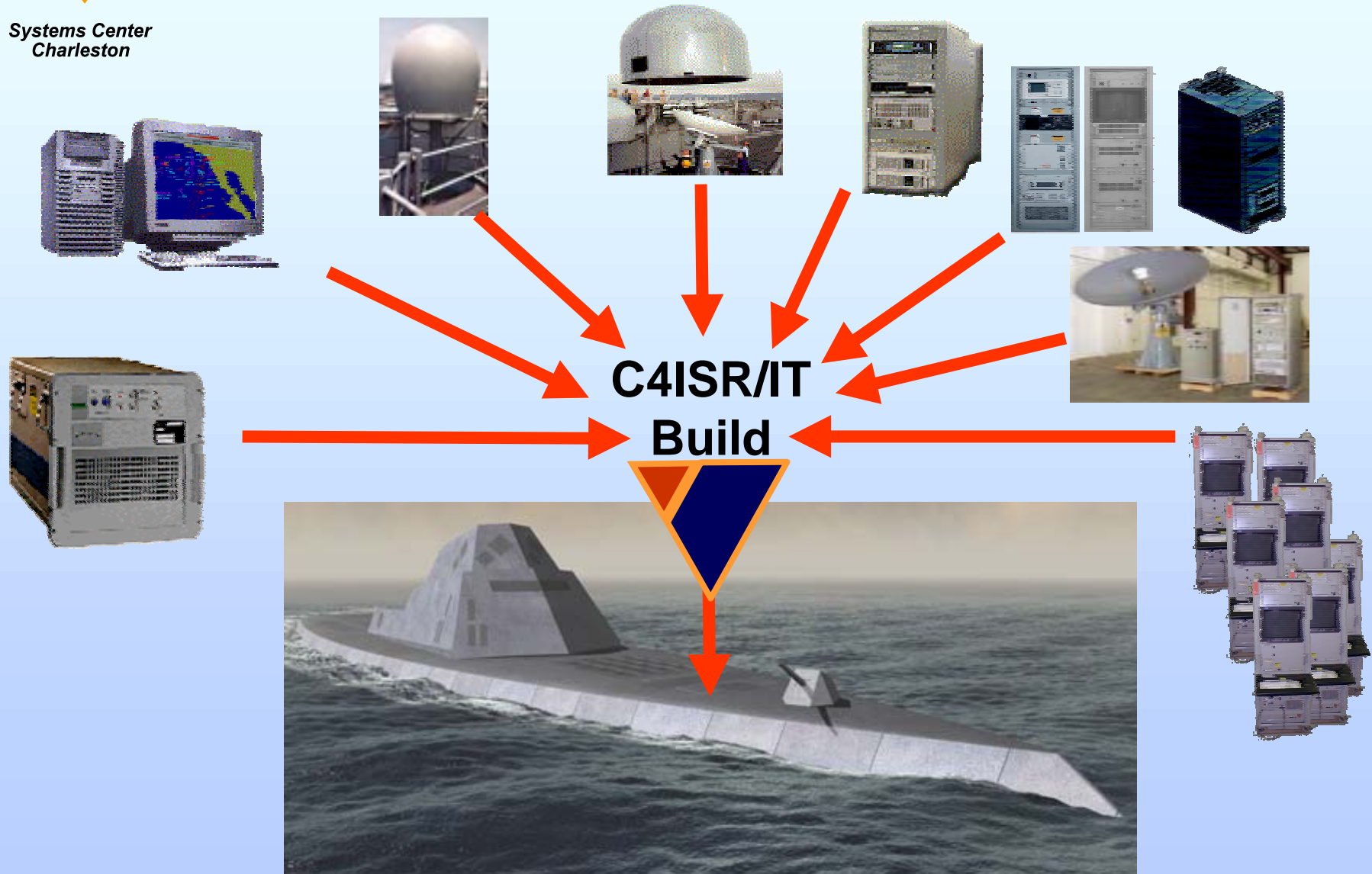


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## Tomorrow's Horizontal Integration: To Integrating the Product Line



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# Technical Departments

*Our Engineering Expertise is Aligned  
into Five Technical Departments*

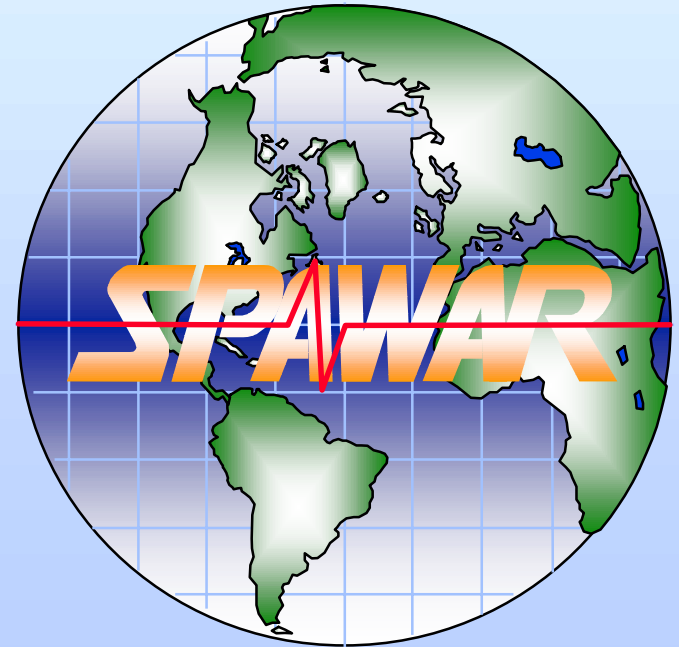
**30** *Surveillance and Systems Engineering*

**40** *Computer Information Technology*

**50** *Communication Systems*

**60** *Command and Control Systems*

**70** *Intelligence & Information Warfare  
Systems Engineering*





# **Surveillance and Systems Engineering**

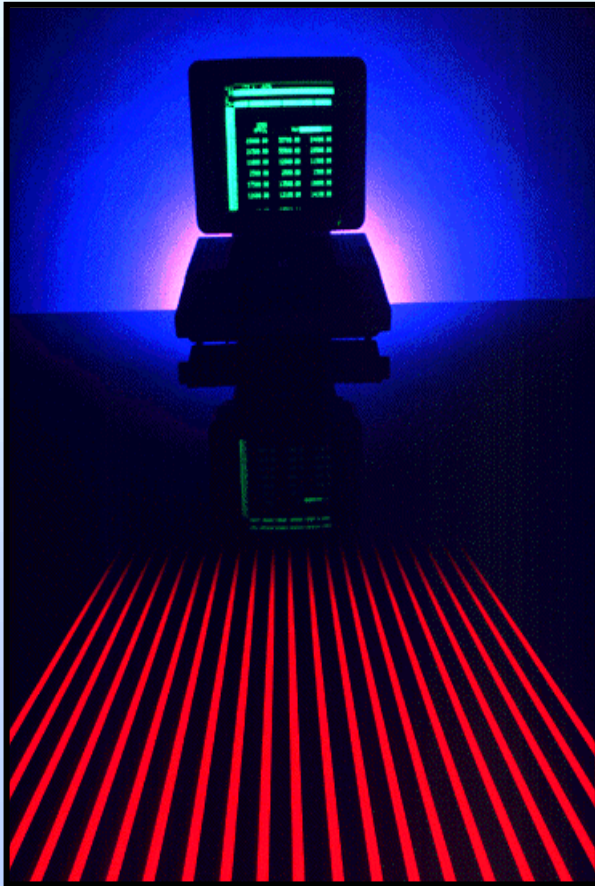
*This Department Provides Mission-Essential Services  
from Concept to Post-Deployment Support for Diverse  
Projects & Customers*



- Radar, Radio Communications & Data Display Systems
- Navigation Systems & C<sup>4</sup>ISR Installations
- Radiation Detection, Indication & Computation (RADIAC) Program
- Integrated Undersea Surveillance System (IUSS) Operations Support
- Meteorological Sensor & Display Systems
- Environmental Testing & Technical Data Services



# Computer Information Technology



- *Applications, Development, Integration, Implementation and Maintenance*
  - Software Engineering
  - Database Design & Administration
  - WEB-Enabled Application Design
  - COTS Integration
  - Legacy System Support & Re-engineering
  - Mobile Computing (including PDA) Applications Development
  - Workflow Management & Knowledge Management
  - Decision Systems Support and Groupware
  - Data Warehousing & Mining
- *Program Management Support*
  - Project Management and Consulting
  - Documentation and Configuration Management
  - Source Selection Evaluation Board Support
  - Independent Verification and Validation (IV&V)
  - Other inherently Governmental Functions





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# Communication Systems

*This Department Engineers, Integrates, Produces and Delivers State-of-the-Art Communications Products in Support of the Warfighter and other Users*



- Telecommunications & Switched Networks
- Integrated Networks & Network Management Systems
- Network Applications, Services, & Operations
- Tactical & Expeditionary Communications
- Satellite Communication Systems
- Wireless Communication Systems
- Advanced Communications Capabilities



# Command and Control Systems

*This Department designs, develops, acquires, integrates, tests, deploys, supports and upgrades command and control information systems employed by the USN, USMC and Joint Forces, as well as maintains electronic systems*



- Global Command and Control System (GCCS)
- GCCS-Maritime
- Mobile, Afloat, and Fixed sites
- Tactical Data Links
- Tactical Decision Aids & Decision Support Systems
- Digital and Analog Display Systems
- Mechanical Fabrication, Engineering Support & Calibration



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# Intelligence and Information Warfare Systems

*This Department Provides Systems Engineering, Installation, Software & Logistics Support for Shore, Surface & Submarine Intelligence and Information Systems Worldwide*



## Signal Exploitation

- Direction Finding & Signal Acquisition
- Intercept & Analysis
- Fixed & Mobile Systems

## Information Security (INFOSEC)

- Firewalls and High Assurance Guards
- Communications Security Systems

## Intelligence Systems

- Video Teleconferencing
- Secondary Imagery Dissemination

## Electronic Security Systems

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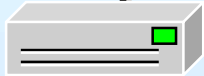
**SPAWAR**



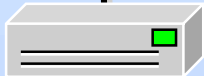
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**SSC Charleston**

**East Coast C4ISR Hub**

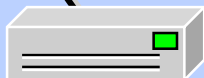


**SSC Chesapeake**



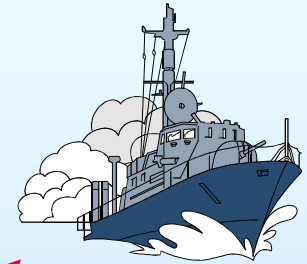
**SSC San Diego**

**West Coast C4ISR Hub**



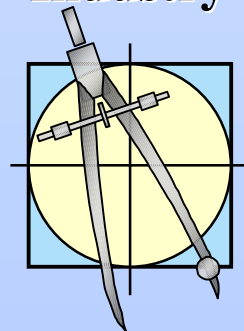
# SPAWAR C4ISR Integration Centers

**SPAWAR C<sup>4</sup>ISR**  
*System Integration Environment  
(SIE)*



**Fleet**

**Industry**



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# Funding Sources Comparison By Customer

 FY01: \$1.6 Billion ← *To Date*

FY00: \$1.4 Billion

Last update: July 31, 2001

<b>SPAWAR</b>	<b>47%</b>	<b>SPAWAR HQ</b>	<b>46%</b>
		<b>SSC San Diego</b>	<b>1%</b>
<b>Other NAVY</b>	<b>34%</b>	<b>NAVSEA</b>	<b>7%</b>
		<b>NAVAIR</b>	<b>3%</b>
		<b>Marine Corps</b>	<b>4%</b>
		<b>Other Navy</b>	<b>20%</b>
<b>Other DOD</b>	<b>15%</b>	<b>Air Force</b>	<b>3%</b>
		<b>Army</b>	<b>1%</b>
		<b>DARPA</b>	<b>1%</b>
		<b>Foreign Military Sales</b>	<b>2%</b>
		<b>Other DOD</b>	<b>8%</b>
<b>Other Federal</b>	<b>4%</b>	<b>Other Federal</b>	<b>4%</b>

% are approximate



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# Sponsors / Customers

Last update: June15, 2000

- **DoD**
  - SPAWAR
  - NAVSEA
  - NAVAIR
  - MSC
  - MARCORSYSCOM
  - Army
  - Air Force
  - Other Navy/Marine Corps Activities
  - Other DoD (DISA, DARPA, DLA, NIMA)
  - Joint/Unified Commands/Agencies
- **Other Federal Government Agencies**
  - Coast Guard
  - Federal Aviation Administration
  - National Science Foundation
  - Department of Justice (FBI, BOP, INS/US Border Patrol)
  - Department of Treasury (US Secret Service, US Mint)
  - Department of Agriculture
  - Department of Health and Human Services (CDC)
  - Department of State
- **Foreign Military Sales (FMS)**

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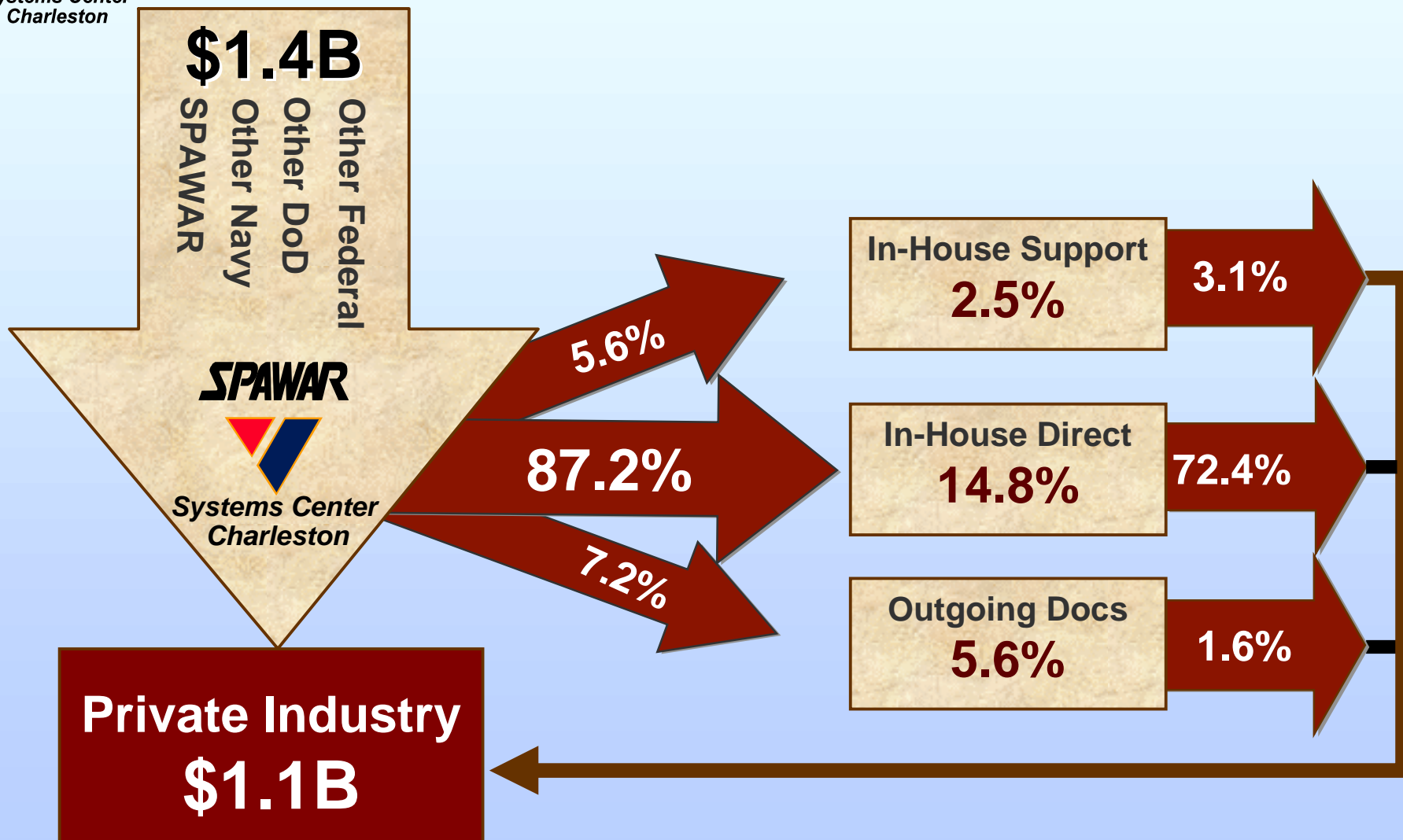
# **Our Business Methods**

- **We are a Navy Working Capital Fund organization**
- **We operate on a break-even (nonprofit) basis**
- **We receive “no direct appropriated funds”**
- **Like the private sector, we earn our money from our customers**
  - **Customers pay a “burdened” rate for our labor**
  - **Burdened rate includes overhead to pay for business operations**
- **Must control costs to keep rates low and stay competitive**
- **Have to market our services, satisfy our customers, and keep an eye on the bottom line**



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## FY-00 Funding Flow





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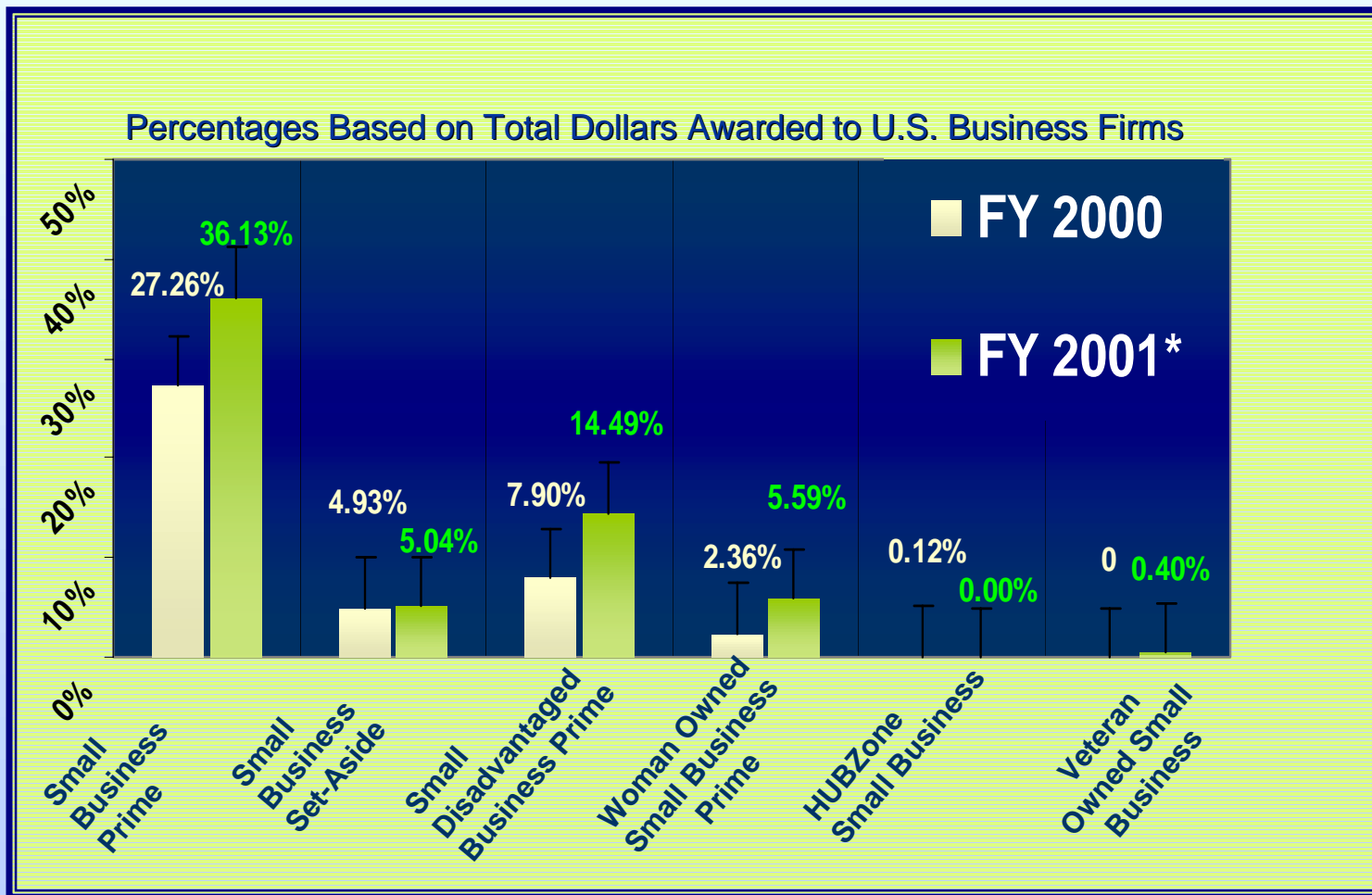
# Contracting Capability

Last update: January 31, 2000

- **Unlimited Contracting Authority**
- **Use Full Spectrum of Contract Types and Techniques**
  - **Cost Plus Fixed Fee (CPFF)**
  - **Cost Plus Award Fee (CPAF)**
  - **Time and Material (T&M)**
  - **Best Value**
  - **Multiple Award**
- **Active Contracts are valued in excess of \$2B**



# Small Business Achievements



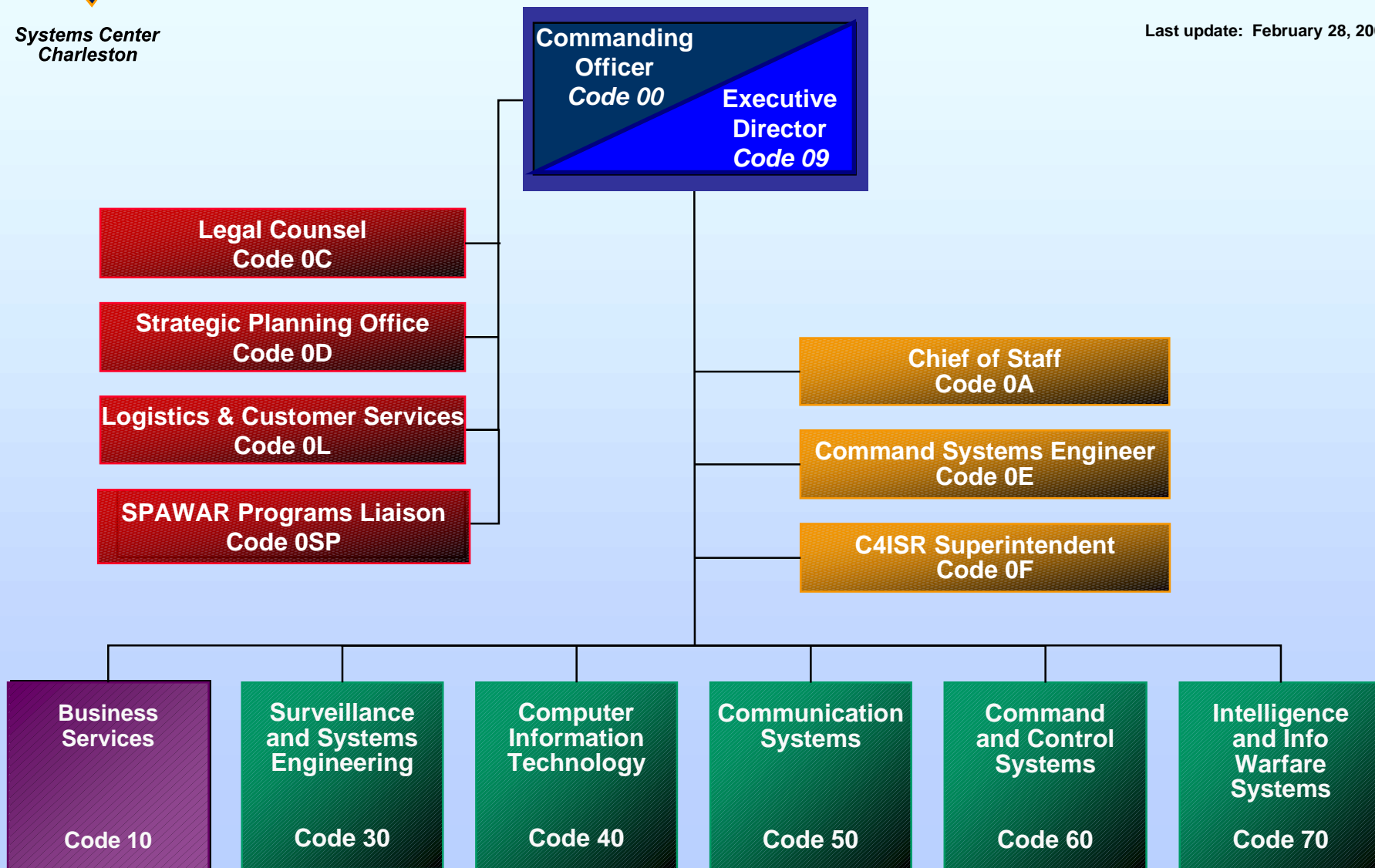
\* Cumulative Percentage as of July 1, 2001 PMRS Report





# Organization

Last update: February 28, 2001

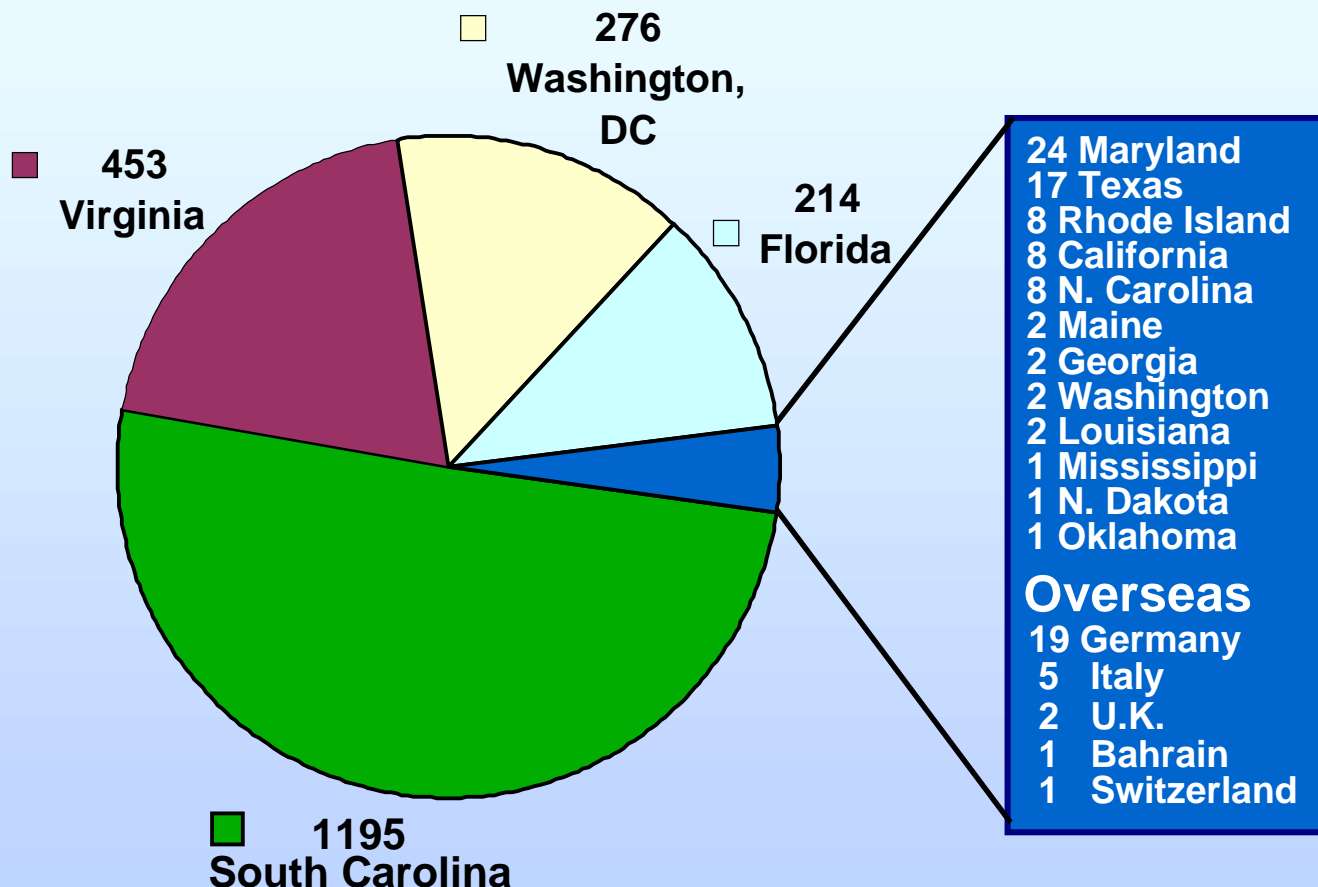




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# FY-01\* Employee Statistics

Last update: July 31, 2001

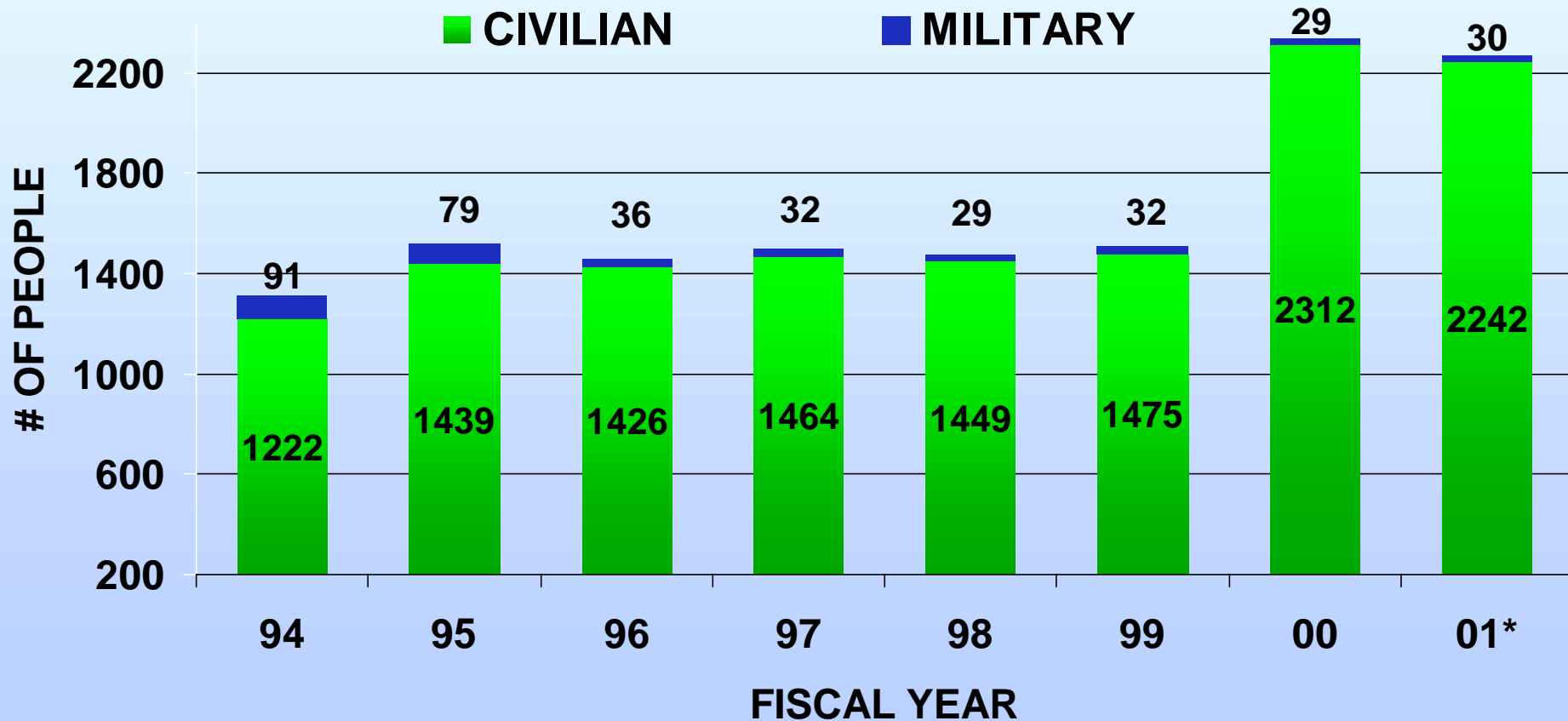


Employees:	2242	(Federal Civil Service)
	33	(Military)

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## End Strength



\*As of July 31, 2001



# Partnerships with the Community

- Member of Trident Chamber of Commerce
- Co-sponsor of Annual Math, Science & Technology (MaST) Program with the AFCEA
- Educators and Industry Program
- Participate in Middle & High School Career & Science Fairs
- Gregg Middle School Mentoring Program - Received a Southeast Region Community Service Award for the year 2000.
- Garrett Academy Science and Math Mentoring Program



Computers for School Program

Ground Hog Job  
Shadow Day



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# Recruitment/New Hires

Last update: December 31, 2000

## •Recruitment

- 80 Hires in 2000 (Engineers and Scientists)
- 17 Applications in process (current year)

## •Student Career Experience Program (CY 2000 Co-ops )

- 23 Students currently participating

## •Student Temporary Employment Program (CY 2001)

- 18 Students currently participating

## •Recruiting Trips Planned (CY 2001)

*Clemson University  
College of Charleston  
Florida A & M  
Florida State  
Georgia Institute of Technology  
George Mason University  
George Washington University  
North Carolina State University  
North Carolina Agricultural  
& Technical State University*

*Old Dominion University  
The Citadel  
Trident Technical College (2 plus 2)  
University of Central Florida  
University of Florida  
University of South Florida  
University of Maryland  
University of South Carolina  
Virginia Polytechnic Institute*



**SPAWAR**



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# **Our Commitment**

***The Satisfaction of Our Customers  
Enhanced Fleet Combat Readiness  
Excellence Through Teamwork  
Leading The 21<sup>st</sup> Century***

***Excellence Through Teamwork***